



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

James W. Musser and C. A. Davenport

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEKEDNT0 ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQIUREMENTS OF LAW IN SIJCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE REcORDS OF THE **PLANT VARIETY PROTECTION OFFICE**, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF **PLANT VARIETY PROTECTION** UNDER THE **LAW**.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OK ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY **LAW**, THE RIGHT TO EXCLUDE OTHERS FKOM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OK EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE **PLANT VARIETY PROTECTION ACT** STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BEAN

'Slenderette'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this first day of May in the year of our Lord one thousand nine hundred and seventy-five

Attest:

S. J. Rollin
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Carl L. Butz

Secretary of Agriculture



APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1. VARIETY NAME OR TEMPORARY DESIGNATION		2. KIND NAME	FOR OFFICIAL USE ONLY	
Slenderette		Beans	PV NUMBER 7166	
3. GENUS AND SPECIES NAME		4. FAMILY NAME (Botanical)	5. FILING DATE	6. TIME A.M. P.M.
Phaseolus vulgaris		Leguminosae	4/9/71	9:30 P.M.
7. DATE OF DETERMINATION		FEE RECEIVED		BALANCE DUE
1968		\$ 250.00		\$ —
8. NAME OF APPLICANT(S)		9. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)		10. TELEPHONE AREA CODE AND NUMBER
Charter Seed Co. JAMES L. MUSSER AND C. A. DAVENPORT R/S		P. O. Box Y Twin Falls, Idaho 83301		(208)733-0424
11. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.)		12. STATE OF INCORPORATION		13. DATE OF INCORPORATION
Corporation		Idaho		Jan. 1946

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:

Lynn B. Kerr
c/o Charter Seed Co.
P. O. Box Y
Twin Falls, Idaho 83301

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.) Previously sent
- ☒ 13B. Exhibit B, Botanical Description of the Variety Previously sent
- ☒ 13C. Exhibit C, Objective Description of the Variety Previously sent
- ☒ 13D. Exhibit D, Data Indicative of Novelty
- ☒ 13E. Exhibit E, Statement of the Basis of Applicant's Ownership

14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 83(a). (If "Yes," answer 14B and 14C below.) ☐ YES ☒ NO14B. Does the applicant(s) specify that this variety be limited as to number of generations? ☐ YES ☒ NO ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

14C. If "Yes," to 14B, how many generations of production beyond breeder seed?

The applicant declares that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable.

The undersigned applicant(s) of this sexually-reproduced novel plant variety believes that the variety is distinct, uniform, and stable as required in Section 41 and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

CHARTER SEED CO.

May 24, 1974
(DATE)

Thomas P. Kiely, Vice President
(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)

INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland 20782. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- 5 Insert the date the applicant determined that he had a new variety **based** on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a First., give the genealogy, including public and commercial **varieties**, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 13b First, give any -special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate **the differences**.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

- 12a. Breeding Method ^{R/S} - Pedigree
 Parentage - Idalight x Lakette
 Idalight is a public variety developed by Idaho State.
 Lakette is a commercial variety developed by Charter Seed Co.
 This line results from a single plant selection in the fourth generation.
- Variants to date are 1 - flat podded and 2 - stringy types. Both have occurred at very low frequencies. 1 FLAT POD PER 1000 PLANTS AND 1 STRINGY POD PER 5,000 PLANTS. R/S.
- 12b. Plant Habit - upright, moderate size, height ^{45cm} 46", width ^{40cm} 20", moderately strong bush.
 Maturity - Tendercrop, ⁶⁶ 60 days.
 Pod type - Slim pod, 70% 1-4 sieve, dark green color, glossy finish, good holding quality, moderate pod height, $4\frac{1}{2}$ -5 inch length, round to slightly creaseback pod shape, white seeded.
 Use - Canner, Freezer.
- 13e. Applicant is actual ~~breeder~~ of this line.

FORM GR-470-12
(11-15-72)UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782EXHIBIT C
(Bean)OBJECTIVE DESCRIPTION OF VARIETY
BEAN (PHASEOLUS VULGARIS)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S) JAMES L. MUSSER AND C. A. DAVENPORT CHARTER SEED CO.	FOR OFFICIAL USE ONLY
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P. O. Box Y Twin Falls, Idaho 83301	PVPO NUMBER 7166 VARIETY NAME OR TEMPORARY DESIGNATION SLENDERETTE Rfs Code 198

Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in first box (e.g. **0 8 9** or **0 9**) when number is either 99 or less or 9 or less.

1. TYPE:

1	1 = SNAPBEAN	2 = GREEN SHELL	3 = DRY EDIBLE	4 = MULTIPURPOSE
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2. SEASON AND REGION OF ADAPTABILITY IN THE U.S.:

2	Grows best during:	1 = SPRING	2 = SUMMER	3 = FALL	4 = WINTER
6	Best adapted in:	1 = NORTHWEST 5 = SOUTHWEST	2 = NORTHCENTRAL 6 = MOST REGIONS	3 = NORTHEAST	4 = SOUTHEAST

3. MATURITY (Days from seeding to first harvest):

6 6	GREEN PODS	7 5	GREEN SHELLS	9 5	DRY SEEDS
0 3	NO. DAYS EARLIER THAN -----	1	1 = TENDERCROP 4 = WHITE KIDNEY 7 = BUSH BLUE LAKE	2 = KENTUCKY WONDER 5 = MICHELITE 62 8 = OTHER (Specify) Provider	3 = KINGHORN WAX 6 = DWARF HORTICULTURAL
0 1	NO. DAYS LATER THAN -----	8			

4. PLANT:

1	1 = DETERMINATE, ERECT BUSH 3 = DETERMINATE, SEMIPOLE	2 = DETERMINATE, SPRAWLING BUSH 4 = INDETERMINATE, POLE
0 4 5	CM. HEIGHT OR LENGTH OF VINE FROM PRIMARY LEAF NODE	
0 0 4	NUMBER PRIMARY BRANCHES PER MAIN STALK	
1	Branching habit: 1 = COMPACT 2 = OPEN	4 0 CM. SPREAD
1 6	CM. LENGTH OF FIRST INTERNODE ABOVE PRIMARY LEAF	0 5 NUMBER INTERNODES ON MAIN STALK BETWEEN PRIMARY LEAF AND BASE OF TERMINAL INFLORESCENCE
2	Main stalk: 1 = BRITTLE 2 = WIREY 1 1. STOUT 2. THIN	0 8 MM. STALK DIAMETER ABOVE FIRST TRIFOLIATE LEAF
2	Flower position: }	1 = LOW, CONCENTRATED 2 = HIGH, CONCENTRATED 3 = SCATTERED
2	Pod Position: }	

5. LEAVES:

2	1 = SMOOTH 2 = WRINKLED	2	1 = DULL 2 = GLOSSY	2	Thickness: 1 = THIN 2 = MEDIUM 3 = THICK
2	Size: 1 = SMALL (Earliwax) 2 = MEDIUM 3 = LARGE (Tendercrop)	1	CM. PETIOLE LENGTH (To basal leaflets of first trifoliate leaf)		
2	Tip shape of center leaflet: 1 = ROUNDED 2 = TAPER POINTED 3 = SHARP POINTED				
1	PUBESCENCE - Dorsal: }	1 = NONE	2 = SLIGHT	3 = CONSIDERABLE	3
1	PUBESCENCE - Ventral: }				
3	Color: 1 = LIGHT GREEN (Bountiful) 2 = MEDIUM GREEN 3 = DARK GREEN (Bush Blue Lake)				

6. FLOWERS:

Color: 1 = WHITE 2 = CREAM 3 = PINK 4 = LILAC 5 = PURPLE
6 = OTHER (Specify) _____

Racemes: 1 = LONG 2 = MEDIUM 3 = SHORT NUMBER FLOWERS PER RACEME

7. FRESH PODS: (Edible maturity, averages for 10 pods)

Color: 1 = LIGHT GREEN (Bountiful) 2 = MEDIUM GREEN (Tendergreen) 3 = DARK GREEN (Wade)
4 = LIGHT YELLOW (Brittlewax) 5 = GOLDEN YELLOW (Cherokee Wax) 6 = GREEN-RED VARIAGATED (Horticultural)
7 = OTHER (Specify) _____

CM. LENGTH MM. WIDTH (Between sutures) MM. THICKNESS $\frac{\text{WIDTH}}{\text{THICKNESS}} \times 10$

Cross section pod shape: 1 = FLAT 2 = OVAL 3 = CREASEBACK 4 = ROUND

Curvature: 1 = STRAIGHT 2 = SLIGHTLY CURVED 3 = CURVED Pubescence: 1 = NONE 2 = SPARSE 3 = CONSIDERABLE

Constrictions: 1 = NONE 2 = SLIGHT 3 = DEEP Spur: 1 = STRAIGHT 2 = SLIGHTLY CURVED 3 = CURVED

Surface: 1 = SHINY 2 = DULL Surface: 1 = SMOOTH 2 = BLISTERED

Pod flesh: 1 = LIGHT 2 = DARK Pod flesh: 1 = FIRM 2 = WATERY

MM. SPUR LENGTH Suture string: 1 = PRESENT 2 = ABSENT

Fiber: 1 = NONE 2 = SPARSE 3 = CONSIDERABLE Seed development: 1 = SLOW 2 = MEDIUM 3 = FAST

NUMBER OF SEEDS PER POD NUMBER PODS PER PLANT (Once over harvest)

NUMBER MARKETABLE PODS PER PLANT (Once over harvest) Machine harvest: 1 = ADAPTED 2 = NOT ADAPTED

8. SEED COAT COLOR:

1 = MONOCHROME 2 = POLYCHROME 1 = SHINY 2 = DULL

Primary color: 1 = WHITE 2 = YELLOW 3 = BUFF 4 = TAN

Secondary color: 5 = BROWN 6 = PINK 7 = RED 8 = PURPLE

9 = BLUE 10 = BLACK 11 = OTHER (Specify) _____

Color pattern: 1 = SPLASHED 2 = MOTTLED 3 = STRIPED 4 = FLECKED 5 = DOTTED

Secondary color location: 1 = HILAR RING 2 = HILAR SURFACE
3 = STROPHIOLE 4 = MICROPYLE
5 = SIDES 6 = DORSAL SURFACE
7 = NOT RESTRICTED TO ANY AREA 8 = COMBINATION OF LOCATIONS (Specify) _____

Hilar ring: 1 = NOT PRESENT 2 = NARROW 3 = BUTTERFLY SHAPED

Vein-like under coat pattern: 1 = ABSENT 2 = PRESENT

9. SEED SHAPE AND SIZE:

Hilum view: 1 = ELLIPTICAL 2 = OVAL 3 = ROUND Side view: 1 = OVAL 2 = ROUND
3 = KIDNEY 4 = TRUNCATE ENDS

Cross section: 1 = ELLIPTICAL 2 = OVAL 3 = CORDATE 4 = ROUND GM. WEIGHT PER 100 SEEDS

Classification: 1 = PEA 2 = MEDIUM 3 = MARROW 4 = KIDNEY 5 = PINTO

MM. WIDTH (Dorsal to ventral) MM. THICKNESS (Side to side)

MM. LENGTH $\frac{\text{WIDTH}}{\text{THICKNESS}} \times 10$

10. ANTHOCYANIN: (1 = Absent 2 = Present):

☒

FLOWERS

☒

STEMS

☒

PODS

☒

SEEDS

☒

LEAVES

11. DISEASE RESISTANCE (0 = Not tested; 1 = Susceptible; 2 = Resistant):

☐

RUST (Specify race) _____

☐

ANGULAR LEAF SPOT

☐

BACTERIAL WILT

☒

COMMON BEAN MOSAIC

☐

ANTHRACNOSE

☐

YELLOW BEAN MOSAIC

☐

SOUTHERN BEAN MOSAIC

☐

FUSARIUM ROOT ROT

☒

CURLY TOP

☒

N.Y. 15 BEAN MOSAIC

☐

POWDERY MILDEW

☐

BEAN MOSAIC VIRUS 4

☐

HALO BLIGHT

☐

FUSCOUS BLIGHT

☐

ALFALFA MOSAIC VIRUS

☐

ALFALFA MOSAIC VIRUS 2

☐

POD MOTTLE VIRUS

☐

RED NODE VIRUS

☐

ROOT KNOT NEMATODE

☐

OTHER (Specify) _____

12. INSECT RESISTANCE: (0 = Not tested; 1 = Susceptible; 2 = Resistant)

☐

APHIDS

☐

LEAF HOPPERS

☐

POD BORER

☐

LYGUS

☐

THRIPS

☐

WEAVILS

☐

SEED CORN MAGGOT

☐

OTHER (Specify) _____

13. PHYSIOLOGICAL RESISTANCE: (0 = Not tested; 1 = Susceptible; 2 = Resistant)

☒

HEAT

☐

COLD

☐

DROUGHT

☐

OTHER (Specify) _____

REFERENCES: The following publications may be used as a reference in completing this form:

1. Beans of New York. Vol. 1 Part II of Vegetables of New York. U.P. Hedrick et al. J. B. Lyon Company, Albany, N.Y. 1931.
2. Yarnell, S. H., Cytogenetics of the Vegetable Crops IV. Legumes. Bot. Rev. 31:247 - 330. 1965.
3. USDA Yearbook of Agriculture. 1937.

COLOR: Nickerson's or any recognized color fan may be used to determine the colors.

SLENDERETTE

REVISED
Exhibit D

This variety is most similar to Slinggreen. Plant foliage is darker green, as is the pod color. Pod is a little more concentrated. Slenderette also differs from Slinggreen in having resistance to Curly Top virus. As a rule Slenderette also has less interlocular cavitation, a better flavor and better seed quality (less germination problem).

REVISED
Exhibit E

JAMES L. MUSSER AND
C. A. DAVENPORT RIS

Slenderette is solely owned by ~~Charter Seed Co.~~ The original cross and all subsequent selection and seed increase work was done on their trial grounds by their research staff.

CHARTER RESEARCH, INC.



P.O. BOX YY
TWIN FALLS, IDAHO 83301 U.S.A.
TELEPHONE 208-734-7100
TWX-910-977-5923

Seedsman

January 27, 1976

BR

Mr. S. F. Rollin
Commissioner, Plant Variety Protection Office
Grain Division
6525 Belcrest Road
Hyattsville, Maryland 20782

Re: Bean Applications Nos. 7166 (Slenderette)
7167 (Goldette), 7168 (Tenderwax), and
7400047 (White Seeded Provider)

Dear Stan:

My sincere apology for not responding to your inquiry as to the actual ownership of the above applications. I quite frankly had meant to discuss this at our recent Board of Director's Meeting, but failed to do so, so in the light of this situation you should show James L. Musser and C. A. Davenport as owners of the certificates for the above named varieties.

I do feel that Charter Research is missing a tremendous advertising opportunity in not having our name listed on your publications, but until such time as the Directors figure out how to alleviate this problem, you should show Messrs Musser and Davenport's names as owners.

Again, my apology for the delay.

Kindest regards,

CHARTER RESEARCH, INC.

Tom Kiely

Thomas P. Kiely
General Manager

TPK:es

